

METHOD OF DETERMINING WHETHER A VIRTUAL ADDRESS CORRESPONDS TO A PHYSICAL ADDRESS IN A TRANSLATION LOOKASIDE BUFFER

Abstract

A method of determining whether a virtual address corresponds to a physical address in a translation lookaside buffer (TLB) includes receiving a virtual address, setting the page type of the virtual address according to a rank of the page types, picking index bits and tag compared address from the virtual address and comparing the index bits and the tag compared bits with the page types and the tag addresses in TLB. After these addresses and bits match, the page types are ranked according to the compared results.